a first layer of a flexible material, which layer [which] is conformable to a complex shape;

a second layer of a flexible material, which layer also [which] is conformable to a complex shape and has a common border with the first layer;

a border seal sealing the first layer and the second layer at said

border: and

said first and second layers being directly secured together [a dot matrix of attachments] interiorly of said border [between the first layer and the second layer, the dot matrix] at a multiplicity of points to form a dot matrix of attachments organized into first imaginary lines and second imaginary lines for connecting dots of said dot matrix to nearest dots of said dot matrix, said first imaginary lines crossing said second imaginary lines at an angle falling in a range of between about 70° to 100°.

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3 (amended) The panel of claim 1, wherein:

the border seal includes [smooth] <u>curvilinear</u> ripples having ripple <u>cvcle</u> lengths substantially shorter than the length of said border.

5. (amended) The panel of claim 4, wherein:

the fence includes [smooth] <u>curvilinear</u> ripples having ripple <u>cycle</u> lengths substantially shorter than the length of the fence.

6. (twice amended) A method of manufacturing a heat exchange panel which conforms to a complex shape comprising the steps of:

sealing a first layer <u>of a flexible material</u>, <u>which layer</u> [which] is conformable to a complex shape to a second layer <u>of a flexible material</u> at a common border, which second layer is also conformable to a complex shape; and

[attaching] sealing said first layer to said second layer interiorly of said border at a multiplicity of points to form [with] a dot matrix of attachments, said dot matrix organized into first imaginary lines and second imaginary lines for connecting dots of said dot matrix to nearest dots of said dot matrix, said first imaginary lines crossing said second imaginary lines at an angle falling in a range of between about 70° to 110°.

8. (amended) The method of claim 6, wherein:

the <u>first</u> step of sealing includes sealing said first layer to said second layer with a border seal having [smooth] <u>curvilinear</u> ripples having ripple <u>cycle</u> lengths substantially shorter than the length of said border.

9. (amended) The method of claim 6, further comprising steps of:

constructing first and second ports for passing a fluid into and out
of said panel; and

sealing said first layer to said second layer with at least one fence between said first port and said second port, said fence having [smooth] curvilinear ripples having ripple lengths substantially shorter than the length of said fence.

10. (twice amended) A method for [exchange] exchanging heat with a complex shape, comprising the steps of:

receiving a fluid flow in a first port;

restricting [a] passage of said fluid flow to between [a] first [layer] and [a] second [layer] layers of flexible material which are conformable to a complex shape;

further restricting said passage with a border seal at a common border between said first [layer] and said second [layer] <u>layers</u>;

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passing said fluid flow about a multiplicity of points interiorly of said first layers said first and second layers being directly secured together to form [through] a dot matrix of attachments organized into first imaginary lines and second imaginary lines connecting dots of said dot matrix to nearest dots of said dot matrix, said first imaginary lines crossing said second imaginary lines at an angle falling in a range of between about 70° to 110°; and issuing said fluid flow through a second port.

issuing said fluid flow through a second port.

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12. (amended) The method of claim 10, where:

said border seal includes [smooth] <u>curvilinear</u> ripples having ripple <u>cycle</u> lengths substantially shorter than the length of said border.

14. (amended) The method of claim 13, wherein:

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said fence includes [smooth] <u>curvilinear</u> ripples having ripple <u>cycle</u> lengths substantially shorter than the length of the sealing fence.

15. (twice amended) A system for exchanging heat with a complex shape; comprising:

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a heat transfer device for one of cooling or heating a fluid;

a pump/reservoir coupled to the heat transfer device for storing and pumping said fluid; and

a heat exchange panel coupled to the pump/reservoir and the heat transfer device, the heat exchange panel including a first layer of a flexible material [which is] conformable to a complex shape, a second layer [which] of a flexible material also [is] conformable to a complex shape [and has a common border with the first layer], a border seal [for] sealing said first layer and said second layer together at said border a first port for receiving said fluid, a second port contiguous with said first port for issuing said fluid, and said first and

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second layers being directly sealed together interiorly of said border seal to form a dot matrix of attachments between said first [layer] and [said] second layers, said dot matrix organized into first imaginary lines and second imaginary lines for connecting dots of said dot matrix to nearest dots of said dot matrix, said first imaginary lines crossing said second imaginary lines at an angle falling in the range of between about 70° to 110°.

17. (amended) The system of claim 15, wherein:

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said border seal includes [smooth] <u>curvilinear</u> ripples having ripple <u>cycle</u> lengths substantially shorter than the length of said border.

18. (twice amended) The system of claim 15, wherein:

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the heat exchange panel further includes at least one fence interiorly of [said] the border [for] sealing said first layer and said second layer, said fence cooperating with said border to define a fluid flow channel within said panel.

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19. (amended) The panel of claim 8, wherein:

said fence includes [smooth] <u>curvilinear</u> ripples having ripple <u>cycle</u> lengths substantially shorter than the length of said fence.

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22. (twice amended) A heat exchange panel to be conformed to a complex shape, comprising:

a first layer of a flexible material, which layer [which] is conformable to a complex shape;

a second layer [which] of a flexible material, which layer also is conformable to a complex shape;